## The Big Six Quiz Solutions

## QUESTION

Q1: An \$80,000 mortgage loan is written at $\mathrm{J} 2=7 \%$, and has a two-year contractual term. Payments are to be made monthly and are based on a 10 year amortization period. Payments are rounded up to the next higher dollar. What is the size of the required payments?

Answer:
\$925

## SOLUTION

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## QUESTION

SOLUTION

Q2: Mike borrows $\$ 80,000$ from a bank to set up a micro-brewery in his basement. It is an interest only loan with a 3 year term and monthly interest payments. The interest rate is $\mathrm{J} 12=9 \%$. How much are Mike's interest only payments every month?

Answer: $\$ 600$
I/YR 9

P/YR 12

## N

PV
FV
PMT
$12 \times 3=36$
80,000 -80,000
? $\rightarrow-600$

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## QUESTION

Q3: How much should an investor pay for a property that he expects to sell for $\$ 550,000$ in three years if the investor wants to earn a yield of $\mathrm{J} 2=10 \%$ ?

Answer: \$410,418.47

## SOLUTION

| I/YR | 10 |
| :--- | :--- |
| P/YR | 2 |
| N | $2 \times 3=6$ |
| PV | $? \rightarrow-410,418.468$ |
| FV | 550,000 |
| PMT | 0 |

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## QUESTION

Q4: Mr. Romney plans to build a restaurant and he requires $\$ 175,000$ in construction financing. Trusty Mortgage
Co. agreed to lend the money to Mr.
Romney in the form of an interest accruing loan. Interest is to be charged at 7\% per annum, compounded semiannually. How much will Mr. Romney owe at the end of the 2 year term?


Answer: \$200,816.53

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## QUESTION

SOLUTION

Q5: Emma wants to know how big of a mortgage she can afford if she can make monthly payments of $\$ 1,500$. The mortgage rates are 4\% per annum, compounded semi-annually, and the amortization period is 20 years.

## Answer: \$248,243.07

N 4
P 2
E
H/YR
P/YR
N
PV
FV
PMT
P 12
N
$12 \times 20=240$

0
$-1,500$

? $\rightarrow$ 248,243.07

